

10/513961

PCT/US03/15991

WO 03/097814

221639.ST25  
SEQUENCE LISTING

<110> GOVERNMENT OF THE UNITED STATES OF AMERICA, REPRESENTED BY  
THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES

<120> SCYTOVIRINS AND RELATED CONJUGATES, FUSION PROTEINS, NUCLEIC  
ACIDS, VECTORS, HOST CELLS, COMPOSITIONS, ANTIBODIES, AND METHODS  
OF USING SCYTOVIRINS

<130> 221639

<150> 60/381,322

<151> 2002-05-16

<160> 7

<170> PatentIn version 3.2

<210> 1

<211> 95

<212> PRT

<213> Scytonema varium

<220>

<221> MISC\_FEATURE

<222> (7)..(55)

<223> Disulfide cross-link between Cys at position 7 and Cys at  
position 55

<220>

<221> MISC\_FEATURE

<222> (20)..(26)

<223> Disulfide cross-link between Cys at position 20 and Cys at  
position 26

<220>

<221> MISC\_FEATURE

<222> (32)..(38)

<223> Disulfide cross-link between Cys at position 32 and Cys at  
position 38

<220>

<221> MISC\_FEATURE

<222> (68)..(74)

<223> Disulfide cross-link between Cys at position 68 and Cys at  
position 74

<220>

<221> MISC\_FEATURE

<222> (80)..(86)

<223> Disulfide cross-link between Cys at position 80 and Cys at  
position 86

<400> 1

Gly Ser Gly Pro Thr Tyr Cys Trp Asn Glu Ala Asn Asn Pro Gly Gly  
1 5 10 15

Pro Asn Arg Cys Ser Asn Asn Lys Gln Cys Asp Gly Ala Arg Thr Cys  
20 25 30

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Ser Ser Ser Gly Phe Cys Gln Gly Thr Ser Arg Lys Pro Asp Pro Gly  
 35 40 45

Pro Lys Gly Pro Thr Tyr Cys Trp Asp Glu Ala Lys Asn Pro Gly Gly  
 50 55 60

Pro Asn Arg Cys Ser Asn Ser Lys Gln Cys Asp Gly Ala Arg Thr Cys  
 65 70 75 80

Ser Ser Ser Gly Phe Cys Gln Gly Thr Ala Gly His Ala Ala Ala  
 85 90 95

<210> 2  
 <211> 107  
 <212> PRT  
 <213> Volvox carteri

<400> 2

Gln Lys Ser Ala Ser Tyr Tyr Trp Asn Glu Ala Thr Asn Pro Leu Gly  
 1 5 10 15

Pro Asn Arg Cys Asn Pro Ala Gly Arg Gly Cys Glu Cys Asp Gly Leu  
 20 25 30

Arg Thr Cys Ser Ser Tyr Gly Trp Cys Gln Gly Ile Ser Arg Pro Thr  
 35 40 45

Ser Pro Pro Pro Pro Ala Ala Cys Gln Gln Lys Ser Ala Ser Tyr Tyr  
 50 55 60

Trp Asn Glu Ala Lys Asn Pro Leu Gly Pro Asn Arg Cys Asn Pro Ala  
 65 70 75 80

Gly Arg Gly Cys Glu Cys Asp Gly Leu Arg Thr Cys Ser Gln Tyr Gly  
 85 90 95

Trp Cys Gln Gly Thr Ala Arg Thr Arg Arg Ala  
 100 105

<210> 3  
 <211> 42  
 <212> PRT  
 <213> Scytonema varium

<400> 3

Asn Arg Cys Ser Asn Asn Lys Gln Cys Asp Gly Ala Arg Thr Cys Ser  
 1 5 10 15

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Ser Ser Gly Phe Cys Gln Gly Thr Ser Arg Lys Pro Asp Pro Gly Pro  
           20                  25                  30

Lys Gly Pro Thr Tyr Cys Trp Asp Glu Ala  
           35                  40

<210> 4  
 <211> 43  
 <212> PRT  
 <213> Urtica dioica

<400> 4

Gln Arg Cys Gly Ser Leu Gly Gly Gly Gly Thr Cys Pro Gly Leu Arg  
   1                  5                  10                  15

Cys Cys Ser Ile Trp Gly Trp Cys Gly Asp Ser Glu Pro Tyr Cys Gly  
           20                  25                  30

Pro Ser Cys Glu Thr Asn Cys Trp Asp Asp Glu  
           35                  40

<210> 5  
 <211> 44  
 <212> PRT  
 <213> Hevea brasiliensis

<400> 5

Glu Gln Cys Gly Arg Gln Ala Gly Gly Lys Leu Cys Pro Asn Asn Leu  
   1                  5                  10                  15

Cys Cys Ser Gln Trp Gly Trp Cys Gly Ser Thr Asp Glu Tyr Cys Ser  
           20                  25                  30

Pro Asp His Asn Cys Gln Ser Asn Cys Lys Asp Ser  
           35                  40

<210> 6  
 <211> 29  
 <212> PRT  
 <213> Amaranthus caudatus

<400> 6

Gly Glu Cys Val Arg Gly Arg Cys Pro Ser Gly Met Cys Cys Ser Gln  
   1                  5                  10                  15

Phe Gly Tyr Cys Gly Lys Gly Pro Lys Tyr Cys Gly Arg  
           20                  25

<210> 7  
 <211> 44

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<212> PRT  
<213> Triticum aestivum

<400> 7

Ile Lys Cys Gly Ser Gln Ala Gly Gly Lys Leu Cys Pro Asn Asn Leu  
1 5 10 15

Cys Cys Ser Gln Trp Gly Phe Cys Gly Leu Gly Ser Glu Phe Cys Gly  
20 25 30

Gly Gly Cys Gln Ser Gly Ala Cys Ser Thr Asp Lys  
35 40